

**Yamato**

# **Checkweigher** *J* series

**INNOVATION IN MOTION**



# Checkweigher J series



## Evolution of **Yamato** standard model

The J Series checkweigher is an evolution of the already successful I Series range of Yamato weighers. Improved productivity, easy operation and versatility ensure this model is relevant across a wide range of industries.



### Industry leading performance

Speed:

**480** ppm

max.  
45%  
up\*

Accuracy:

**Industry No.1**

**±0.07g**

max.  
65%  
up\*

\*Compared to conventional model

### Easy operation

- Higher visibility 10.4 inch color touch screen
- Easy initial settings and daily operation
- Controller can be separated from the main body **option**

\*Cable max length 10m

### Reliability & Safety

- Maintenance information function
- Reject verification function **option**

## Industry leading performance

Speeds of 480ppm with an accuracy of  $\pm 0.07g$ .

### New load cell

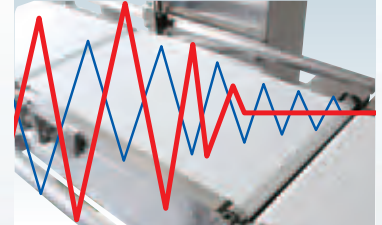
New type high rigid cell shortens the settle time therefore resulting in high speed and high accuracy weighing.

### Wide variety of conveyor sizes

A variety of conveyor sizes are available allowing products to be weighed at the maximum speed and accuracy.

### Dual load cell (option)

Where floor vibration is an issue, the loadcell can remove low frequency vibration therefore maintaining high accuracy weighing.



## Easy operation

10.4 inch color touch screen offers higher visibility and better usability.

### Easy initial setting

Yamatos 'Automatic program set up' allows initial settings to be performed without any complicated parameters.



Easy initial settings and daily operation

### Easy screen control & visibility

A highly visible and clear screen format for ease of operation.



### Removable Controller (option)

The control unit (screen) can be removed from the main body and located up to 10m away.

In addition, adjustable angle of controller does not limit operator's working place and improve the work efficiency.

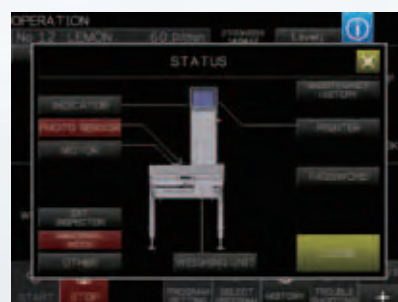




## Easy cleaning & maintenance

### Error and alert functions

Monitoring errors such as weigh error, photo sensor error, motor error and so on and alert them. Showing the point of the error and how to recover it to minimize the downtime.



### Parts replacement alert function

An indicator shows when consumable parts require replacement, this technology can then reduce down time.



### High capacity load cell

The loadcell can withstand up to 1000% of its maximum capacity therefore providing greater protection against accidental damage cleaning or maintenance work.



### Shorten maintenance time

By unitizing the parts, the maintenance and repair time are shortened.



### Tool free maintenance

The conveyor system has minimal components and can be removed and reattached easily and without the use of tools.



## Outstanding food safety

J series Checkweigher is HACCP and GMP compliant and provides high level of hygienic safety for wide range of production lines.

### Tubular framework

The tubular framework is SUS with an open frame structure which minimizes dust accumulation.

### Compliant with food hygiene law

The conveyor belt is fully compliant and meets food hygiene laws.



## Reliability & safety

### Item Alert

The clear display indicates any areas of concern that needs to be checked prior to daily operation.



### Reject verification (option)

By installing sensors at rejecter, it can confirm whether defective products are being properly rejected and prevent those products from being passed on to the next conveyor.



## Environmental responsiveness

### Eco-Design manufacturing

- The backlight is automatically turned off when the unit is not in operation for a specified period of time.
- The conveyor can also be stopped automatically when the unit is not operated for a period of time in order to save energy.
- Minimizes the environmental impact by reducing the number of components.
- Compliant with RoHS.

## Overall flexibility

### Wide pass line height variation

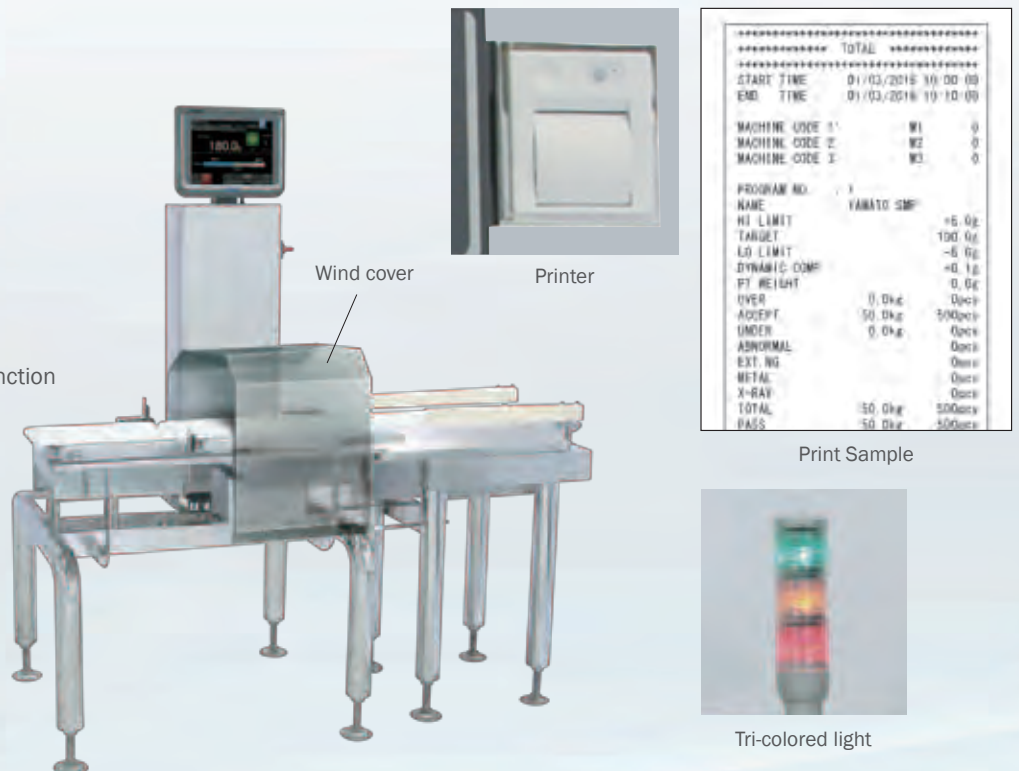
The line height and overall length of conveyors can be changes to suit your specific factory requirements.



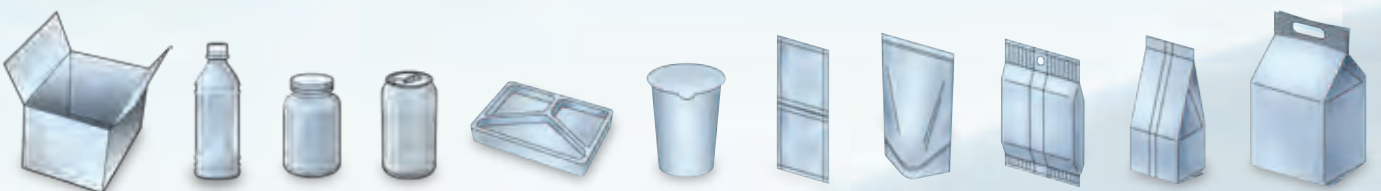
## Options

- Reject Device
- Pass line height variations
- Reject verification function
- Signal light
- Tri-colored light
- Buzzer
- Printer
- Dual load cell
- BCD product input
- Feedback
- Automatically conveyors stop function
- Controller can be separated from the main body with cable.
- Wireless LAN function
- Data acquisition software
- Wind cover (main body & rejecter)
- RS232C
- Ethernet
- External indicator
- Conveyor support
- BCD product output
- Transfer plate

\*Please contact us if you have other requirements.



## Handling capability





## Combination Checkweigher and metal detector systems

Slim line and full size units available, checkweigh and metal detect in one process and save on line space.

### Features

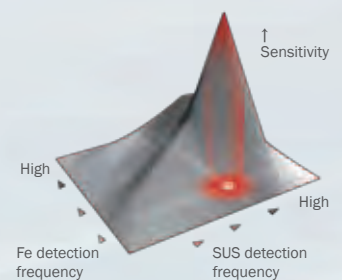


#### One-process for metal detection and checkweigher

- Combination solution can reduce the foot print of the machine, and investment and maintenance cost.
- Unified control for program change.

#### High sensitivity

- Utilizing simultaneous 2 frequencies from 4 types allowing higher sensitivity measurements to detect contaminants.
- Original digital signal processing allows stable detecting sensitivity.

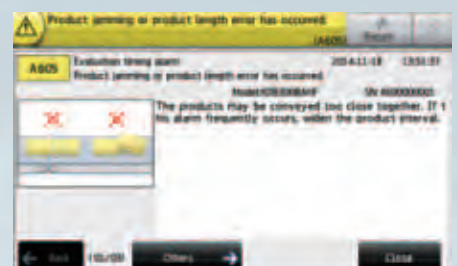


#### Reliable detecting sensitivity

- self diagnostics through motion monitoring sensor fitted within the head.
- Automatic temperature compensation.

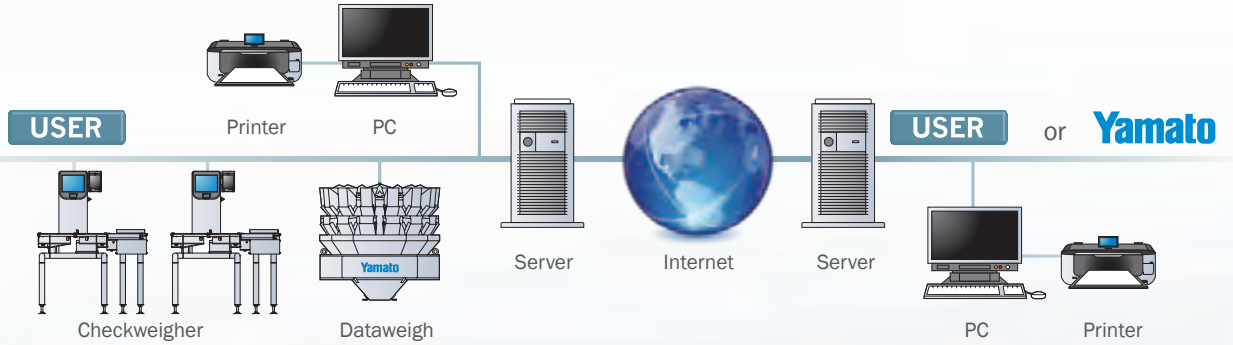
#### Ease of operation

- Advanced high-definition color touch screen provides ease of operation and visibility. In addition, new auto-setting algorithm enables easy setup.
- Maintenance support guide indicates the resource of the trouble and how to solve the issue thus reduces downtime.



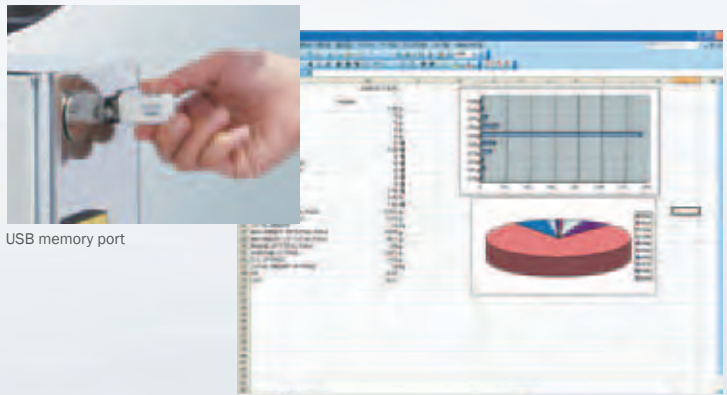
## Network Connection Capabilities

The J Series has the ability to network with other devices.



### Recording history and data

The operation history and production data is automatically recorded and transferred to a PC or saved to a USB stick. This allows manipulation and interrogation of the data for verification and analysis purposes.



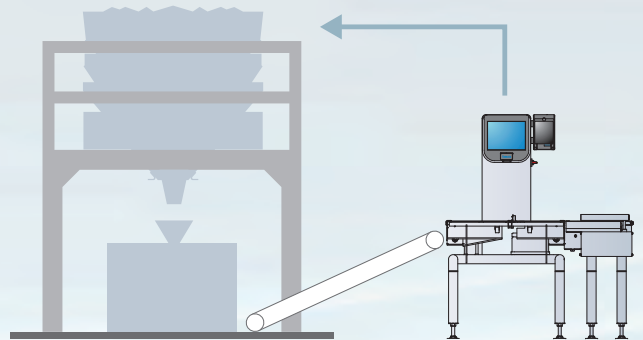
USB memory port

Making use of cumulative production data

## Feedback control with Dataweigh Multihead Weigher

### Feed back control

When coupled with a Yamato Multihead Weigher, the checkweigher can feed back exact and actual weight so that the Multihead (Dataweigh) can adjust its weighing process. This function results in reduced giveaway and savings in labour costs.

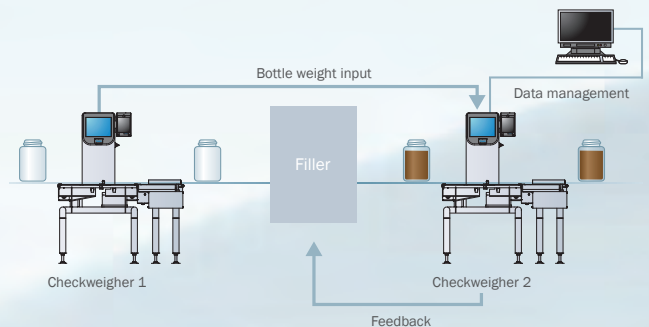


## Net Weight Fill Function

Suitable for the case of variable volume bottles.

### Net weight fill function

Checkweigher one weighs the empty container, then the filler inserts the contents. Checkweigher two weighs the filled container, calculates the net weight and feeds back that net weight to the filler for more accurate feeding.





Small type

# CSJ06L / CSJ06LM

- Range: 6~600g
- Max accuracy: ±0.07g
- Max speed: 480ppm

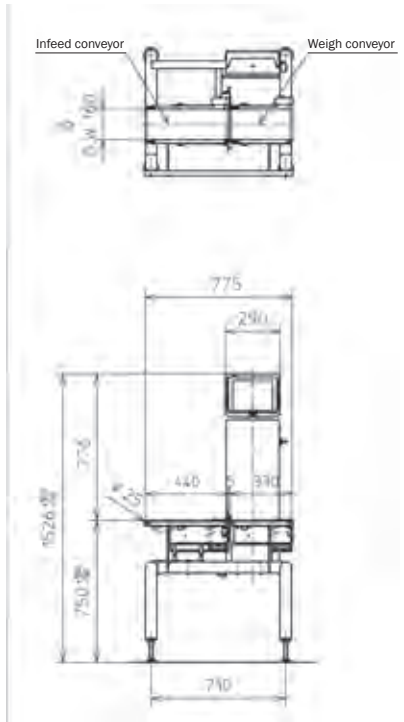
### Standard specification

Model		CSJ06L/CE3100	CSJ06LM/CE3100
Range		6~600g	
Minimum graduation		0.05g	
*Accuracy (Max.)		±0.07g	
*Speed (Max.)		480ppm	
Belt speed		6~116m/min	
Max sensitivity	Pass height	80mm	Feφ0.4mm SUSφ0.7mm
		95mm	—
		120mm	Feφ0.45mm SUSφ0.85mm
		125mm	—
IP protection class		IP30	
Power supply		AC100~240V±10%, 50/60Hz, single phase 150VA	AC100~120, 200~240V±10%, 50/60Hz, single phase 250VA
Operating environment		0~40°C Relatively humidity 30% to 85%, Non-condensing	
Program number		300	

\*Depend on product characteristics.

### Dimensions (mm)

#### Checkweigher CSJ06L-00 / CE3100



### CSJ06L Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)
		Infeed conveyor		Weigh conveyor		
		Width	Length	Width	Length	
CSJ06L	480	160	440	160	240	685
	350		330		330	665
	350		440		330	775
	260		330		440	775
	260		440		440	885
	480	240	440	240	240	685
	350		330		330	665
	350		440		330	775
	260		330		440	775
	260		440		440	885

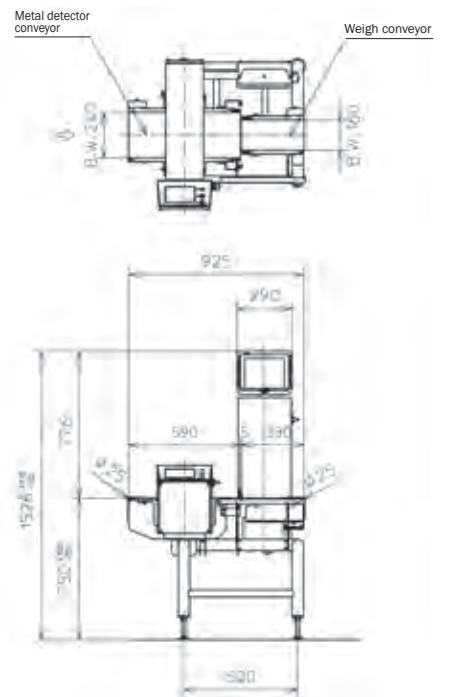
Standard specification

### CSJ06LM Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)	
		Infeed conveyor		Weigh conveyor			
		Width	Length	Width	Length		
CSJ06LM	480	240	590	160	240	835	
	350				330	925	
	260				440	1035	
	480				240	240	835
	350					330	925
	260					440	1035

Standard specification

#### Combination checkweigher and metal detector system CSJ06LM-00 / CE3100



Small type

# CSJ22L / CSJ22LM

- Range:20~2,200g
- Max accuracy:±0.2g
- Max speed:480ppm

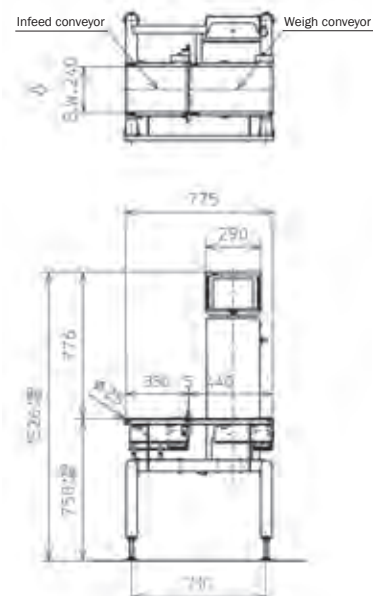
### Standard specification

Model		CSJ22L/CE3100	CSJ22LM/CE3100
Range		20~2,200g	
Minimum graduation		0.1g	
*Accuracy (Max.)		±0.2g	
*Speed (Max.)		480ppm	
Belt speed		6~116m/min	
Max sensitivity	Pass height	80mm	— Feφ0.4mm SUSφ0.7mm
		95mm	—
		120mm	— Feφ0.45mm SUSφ0.85mm
		125mm	—
IP protection class		IP30	
Power supply		AC100~240V±10%, 50/60Hz, single phase 150VA	AC100~120, 200~240V±10%, 50/60Hz, single phase 250VA
Operating environment		0~40°C Relatively humidity 30% to 85%, Non-condensing	
Program number		300	200

\*Depend on product characteristics.

### Dimensions (mm)

#### Checkweigher CSJ22L-00 / CE3100



### CSJ22L Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)
		Infeed conveyor		Weigh conveyor		
		Width	Length	Width	Length	
CSJ22L	480	160	440	160	240	685
	350		330		330	665
	350		440		330	775
	260		330		440	775
	260		440		440	885
	480	240	440	240	240	685
	350		330		330	665
	350		440		330	775
	260		330		440	775
	260		440		440	885

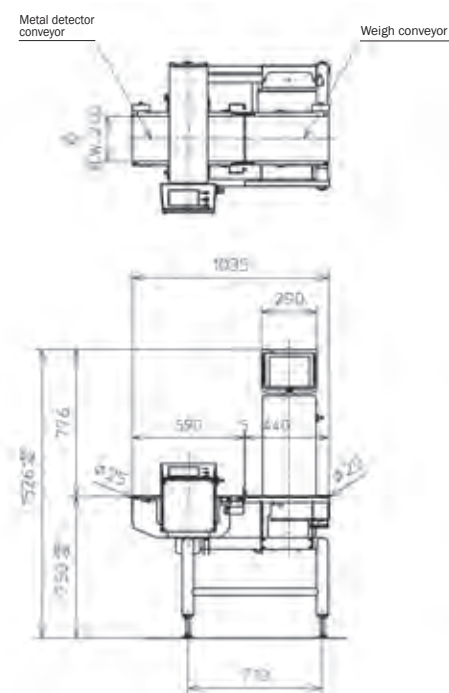
Standard specification

### CSJ22LM Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)	
		Infeed conveyor		Weigh conveyor			
		Width	Length	Width	Length		
CSJ22LM	480	240	590	160	240	835	
	350				330	925	
	260				440	1035	
	480				240	240	835
	350					330	925
	260					440	1035

Standard specification

#### Combination checkweigher and metal detector system CSJ22LM-00 / CE3100



Small type

# CSJ33L / CSJ33LM

- Range: 30~3,300g
- Max accuracy: ±0.2g (Minimum graduation 0.1g)  
±0.3g (Minimum graduation 0.2g)
- Max speed: 310ppm

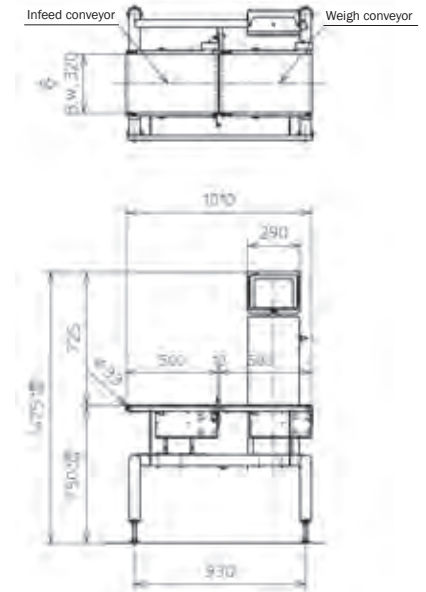
### Standard specification

Model		CSJ33L/CE3100		CSJ33LM/CE3100	
Range		30~3,300g			
Minimum graduation		0.1g	0.2g	0.1g	0.2g
*Accuracy (Max.)		±0.2g	±0.3g	±0.2g	±0.3g
*Speed (Max.)		310ppm	190ppm	310ppm	190ppm
Belt speed		5~75m/min	5~76m/min	5~75m/min	5~76m/min
Max sensitivity	Pass height	80mm	—	Feφ0.4mm SUSφ0.7mm	—
		95mm	—	—	Feφ0.45mm SUSφ0.85mm
		120mm	—	Feφ0.45mm SUSφ0.85mm	—
		125mm	—	—	Feφ0.5mm SUSφ0.9mm
IP protection class		IP30			
Power supply		AC100~240V±10%, 50/60Hz, single phase 150VA		AC100~120, 200~240V±10%, 50/60Hz, single phase 250VA	
Operating environment		0~40°C Relatively humidity 30% to 85%, Non-condensing			
Program number		300			

\*Depend on product characteristics.

### Dimensions (mm)

#### Checkweigher CSJ33L-00 / CE3100



### CSJ33L Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)
		Infeed conveyor		Weigh conveyor		
		Width	Length	Width	Length	
CSJ33L	310	240	440	240	240	685
	220		330		330	665
	220		440		330	775
	170		330		440	775
	170		440		440	885
	190	320	400	320	400	810
	190		500		400	910
	190		600		400	1010
	150		400		500	910
	150		500		500	1010
	150		600		500	1110
	120		400		600	1010
	120		500		600	1110
	120	600	600	1210		

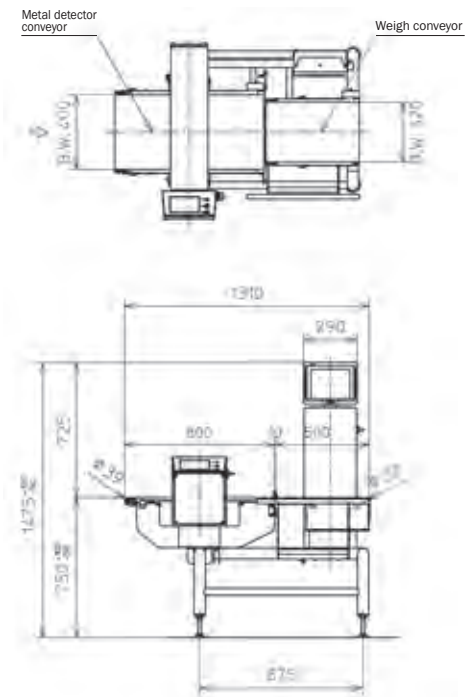
Standard specification

### CSJ33LM Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)
		Infeed conveyor		Weigh conveyor		
		Width	Length	Width	Length	
CSJ33LM	310	240	590	240	240	840
	220				330	930
	170				440	1040
	190	400	800	320	400	1210
	150				500	1310
	120				600	1410

Standard specification

### Combination checkweigher and metal detector system CSJ33LM-00 / CE3100





Medium Type

# CMJ06LM

- Range:60~6,000g
- Max accuracy:±1.0g
- Max speed:150ppm

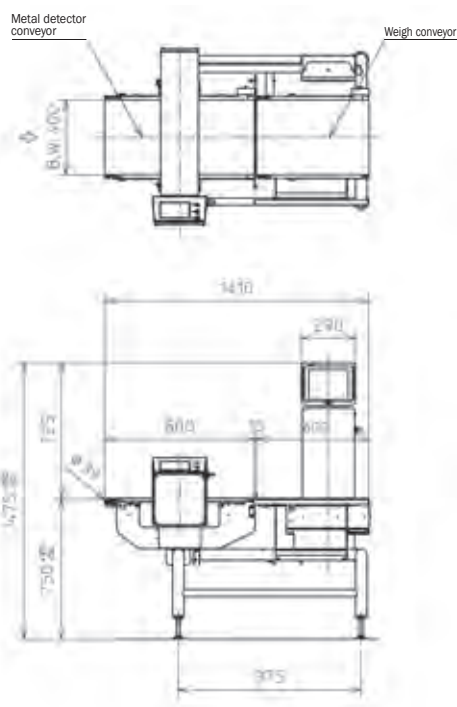
### Standard specification

Model		CMJ06LM/CE3100	
Range		60~6,000g	
Minimum graduation		0.5g	
*Accuracy (Max.)		±1.0g	
*Speed (Max.)		150ppm	
Belt speed		4~60m/min	
Max sensitivity	Pass height	80mm	—
		95mm	Feφ0.45mm SUSφ0.85mm
		120mm	—
		125mm	Feφ0.5mm SUSφ0.9mm
IP protection class		IP30	
Power supply		AC100~120, 200~240V ±10%, 50/60Hz, single phase, 350VA	
Operating environment		0~40°C Relatively humidity 30% to 85%, Non-condensing	
Program number		300	

\*Depend on product characteristics.

### Dimensions (mm)

Combination checkweigher and metal detector system  
**CMJ06LM / CE3100**



### CMJ06LM Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)
		Infeed conveyor		Weigh conveyor		
		Width	Length	Width	Length	
CMJ06LM	150	400	800	320	400	1210
	120				500	1310
	100				600	1410
	150			400	400	1210
	120				500	1310
	100				600	1410

Standard specification

## Medium Type

# CMJ12L

- Range:60~12,000g
- Max accuracy:±1.0g
- Max speed:150ppm

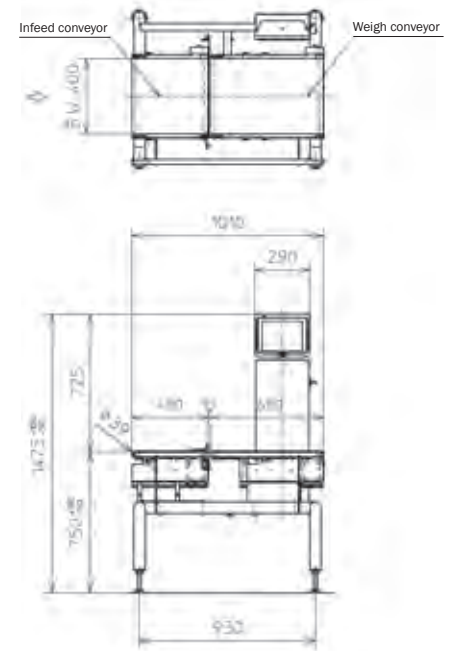
### Standard specification

Model	CMJ12L/CE3100
Range	60~12,000g
Minimum graduation	0.5g
*Accuracy (Max.)	±1.0g
*Speed (Max.)	150ppm
Belt speed	4~60m/min
IP protection class	IP30
Power supply	AC100~240V ±10%, 50/60Hz, single phase, 250VA
Operating environment	0~40°C Relatively humidity 30% to 85%, Non-condensing
Program number	300

\*Depend on product characteristics.

### Dimensions (mm)

Checkweigher  
CMJ12L-00 / CE3100



### CMJ12L Conveyor

Model	Max speed (pcs / min)	Conveyor dimension (mm)				Machine length (mm)
		Infeed conveyor		Weigh conveyor		
		Width	Length	Width	Length	
CMJ12L	150	320	400	320	400	810
	150		500		400	910
	150		600		400	1,010
	120		400		500	910
	120		500		500	1,010
	120		600		500	1,110
	100		400		600	1,010
	100		500		600	1,110
	100		600		600	1,210
	150	400	400	400	400	810
	150		500		400	910
	150		600		400	1,010
	120		400		500	910
	120		500		500	1,010
	120		600		500	1,110
	100		400		600	1,010
	100		500		600	1,110
	100		600		600	1,210

Standard specification

Medium Type

# CMJ30L

- Range:0.3kg~30kg
- Max accuracy:±2g
- Max speed:50ppm

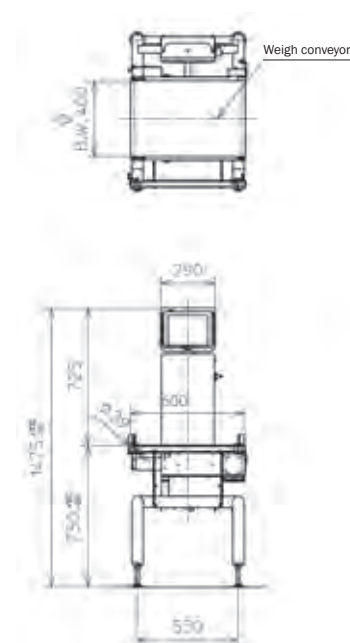
### Standard specification

Model	CMJ30L/CE3100
Range	0.3~30kg
Minimum graduation	2g
*Accuracy (Max.)	±2g
*Speed (Max.)	50ppm
Belt speed	2~31m/min
IP protection class	IP30
Power supply	AC100~240V ±10%, 50/60Hz, single phase, 150VA
Operating environment	0~40°C Relatively humidity 30% to 85%, Non-condensing
Program number	300

\*Depend on product characteristics.

### Dimensions (mm)

Checkweigher  
**CMJ30L / CE3100**



### CMJ30L Conveyor

Model	Max speed (pcs / min)	Conveyor dimension	
		Weigh conveyor	
		Width	Length
CMJ30L	50	400	600

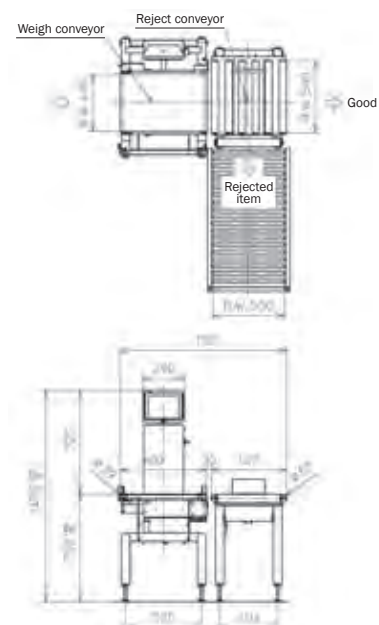
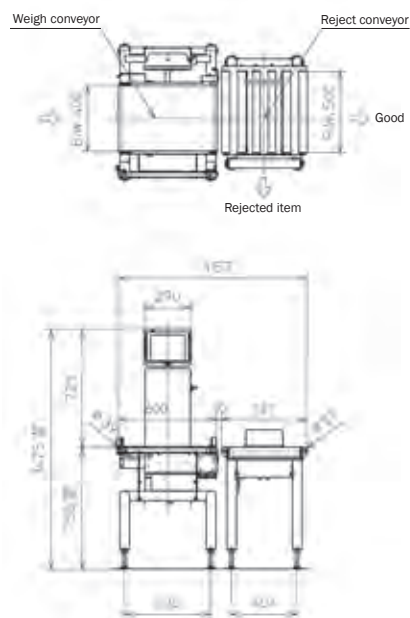
Standard specification

### CMJ30L-2P0 (with pusher reject)

### Dimensions (mm)

Checkweigher  
**CMJ30L-2P0 / CE3100**  
with pusher reject

Checkweigher  
**CMJ30L-2P0 / CE3100**  
with pusher reject and pool conveyor

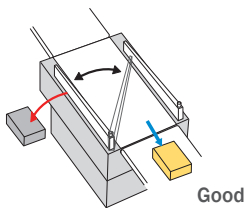




# Reject devices

## ■ Diverter reject (air / motor powered)

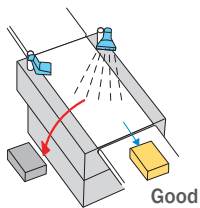
Rejects the product by diverter arm mechanism - over, under or accept. Ideal for thick products and boxes.



Model		CSJ				CMJ	
		FJ31660F	FJ31660FM(H)	FJ32460F(T)	FJ32460FM(H)	FJ33274F	FJ34084F
Product size (Max.)	Width	160mm	160mm	240mm	240mm	320mm	400mm
	Length	400mm	400mm	400mm	400mm	540mm	540mm
	Height	200mm	200mm	200mm	200mm	200mm	200mm
	Weight	2,200g	2,200g (1100g)	2,200g (3300g)	2,200g (1100g)	6,000g	6,000g
Speed (Max.)		270ppm	180ppm (220ppm)	200ppm	100ppm (150ppm)	150ppm	130ppm
Air supply		0.4~0.7MPa, 0.4NL/time	—	0.4~0.7MPa, 0.4NL/time	—	0.4~0.7MPa, 0.4NL/time	0.4~0.7MPa, 0.4NL/time
Belt speed		6~116m/min	6~116m/min	6~116(5~76)m/min	6~116m/min	4~62m/min	4~62m/min
Power supply		60VA	155VA	60VA	155VA	60VA	110VA
IP protection class		IP30					

## ■ Air blast reject

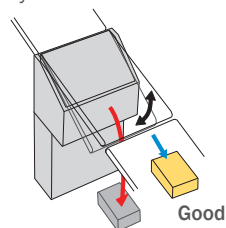
Uses air to reject the product. Ideal for high speed weighing of small and light products.



Model		CSJ	
		AJ21624I AJ2(3)1633I AJ2(3)1644I	AJ2(3)2433I AJ2(3)2444I
Product size (Max.)	Width	160mm	240mm
	Length	400mm	400mm
	Height	160mm	160mm
	Weight	300g	300g
Speed (Max.)		400ppm	400ppm
Air supply		0.4~0.7MPa, 5NL/time	0.4~0.7MPa, 5NL/time
Belt speed		6~116m/min	6~116m/min
Power supply		60VA	60VA
IP protection class		IP30	

## ■ Driven drop flap reject

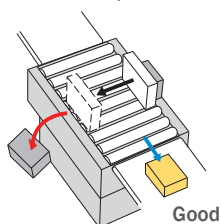
Driving drop flap reject system eliminates excess or short weigh items from all checked products by conveyor down.



Model		CSJ			CMJ	
		SJ21624F SJ21633F SJ21644F	SJ22433F(T) SJ22444F(T)	SJ23240F SJ23250F SJ23260F	SJ24040F SJ24050F SJ24060F	
Product size (Max.)	Width	160mm	240mm	320mm	400mm	
	Length	400mm	400mm	540mm	540mm	
	Height	130mm	130mm	130mm	130mm	
	Weight	2,200g	2,200g (3,300g)	3,300g	12,000g	
Speed (Max.)		100ppm	100ppm	50ppm	50ppm	
Air supply		0.4~0.7MPa, 2.0NL/time	0.4~0.7MPa, 2.0NL/time	0.4~0.7MPa, 2.0NL/time	0.4~0.7MPa, 2.0NL/time	
Belt speed		6~116m/min	6~116(5~76)m/min	5~76m/min	4~60m/min	
Power supply		60VA	60VA	60VA	110VA	
IP protection class		IP30				

## ■ Pusher reject

The device pushes the product to reject it from the conveyor. Suitable for thick products and boxes.

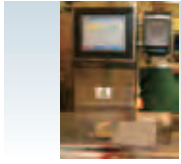


Model		CSJ			CMJ	
		PJ21624F PJ21633F PJ21644F	PJ22433F(T) PJ22444F(T)	PJ23240F PJ23250F PJ23260F	PJ24040F PJ24050F PJ24060F	PJ25053F (Roller type)
Product size (Max.)	Width	160mm	240mm	320mm	400mm	400mm
	Length	400mm	400mm	500mm	500mm	500mm
	Height	200mm	200mm	200mm	200mm	600mm
	Weight	2,200g	2,200g (3,300g)	3,300g	12,000g	30,000g
Speed (Max.)		180ppm	160ppm	120ppm	100ppm	50ppm
Air supply		0.4~0.7MPa, 2.0NL/time	0.4~0.7MPa, 2.5NL/time	0.4~0.7MPa, 3.0NL/time	0.4~0.7MPa, 3.5NL/time	0.4~0.7MPa, 7.5NL/time
Belt speed		6~116m/min	6~116(5~76)m/min	5~76m/min	4~60m/min	4~31m/min
Power supply		60VA	60VA	60VA	110VA	60VA
IP protection class		IP30				

# Yamato & the Checkweigher

In 1966, we introduced the Checkweigher CB3. We have supplied high-performance, robust, and user-friendly Checkweigher Series units for about 50 years now, while building up a global customer base over that time. Our headquarters are located in Akashi, Japan, and we have regional offices in the U.S.A., Canada, Germany, the Netherlands, the U.K., France, Russia, China, India, UAE, Mexico, Thailand and Italy. Our worldwide sales network includes representatives in more than 70 countries, and our highly experienced sales and service staff provides customers everywhere with a high level of expertise and service.

## ■ On-site service



Installation



Application



Training

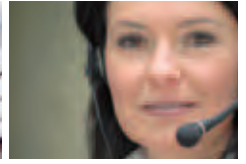
## ■ In-house service



Repair



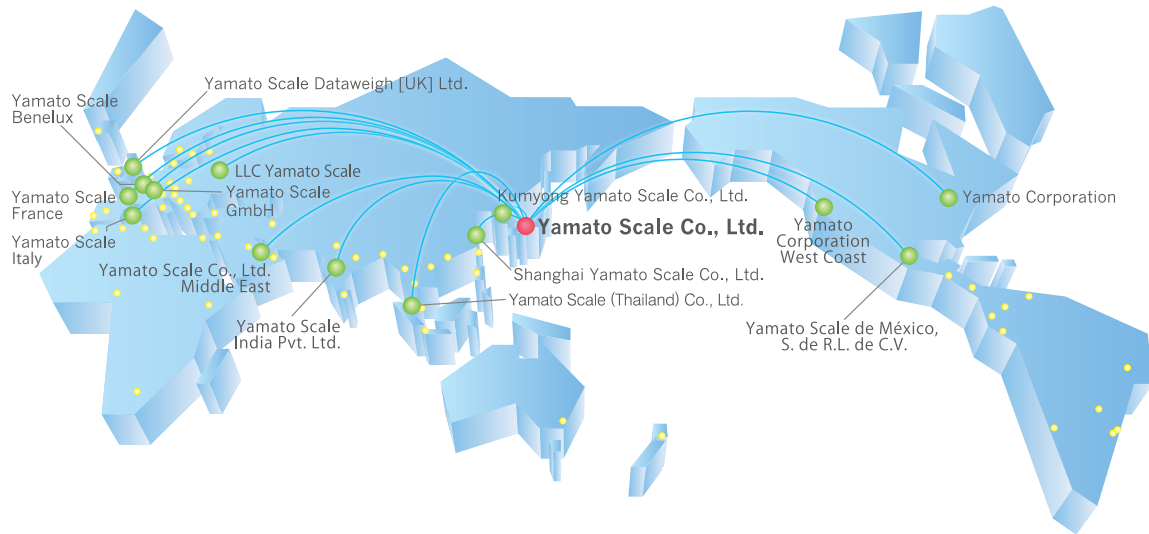
Maintenance



Helpdesk & hotline

## Worldwide Sales & Service Network

Yamato is the only manufacturer of multihead weighers with wholly owned operations in America, Europe and Asia.



## Spare Parts & Service

Yamato Spare Parts and Service are subject to the same high demands in quality as the machines themselves.

The listed speed, weight and volume are standard values. Other specifications are also available. Please contact Yamato for details.

This machine is covered by a number of patents worldwide.

All illustrations, specifications, and descriptions are subject to change without notice.



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